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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/642,579

08/19/2003

Takashi Serizawa

SAT 195

2942

23995

7590

11/18/2004

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EXAMINER

ROYER, WILLIAM J

ART UNIT

PAPER NUMBER

2852

DATE MAILED: 11/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/642,579

Applicant(s)

SERIZAWA ET AL.

Examiner

William J. Royer

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-5 is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_ is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 August 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____.  |

This application is in condition for allowance except for the following formal matters:

***Specification***

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The disclosure is objected to because of the following informalities:

In Figure 9, reference numeral "55" is shown, however, reference numeral "55" does not appear to be identified in the specification.

On page 1, line 7, change "In" to --- in ---.

On page 1, line 9, change "forming a" to --- forming an ---.

On page 1, line 10, change "using a" to --- using an ---.

On page 1, line 14, change "developing" to --- develop ---.

On page 1, line 15, change "recording medium, for example" to --- a recording medium, for example, a ---.

On page 1, line 18, delete --- summary ---.

On page 1, line 20, delete --- the ---.

On page 1, line 21, change "12 is a" to --- and 12 is an ---.

On page 1, line 21, change "electrifying the" to --- electrify ---.

On page 1, line 22, after "drum" insert --- 11 ---.

On page 1, line 23, after "device" insert --- 12 ---.

On page 1, line 23, change "a" to --- an ---.

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On page 2, line 1, change "forming from a" to --- formed from an ---.

On page 2, line 2, change "Urethane" to --- urethane ---.

On page 2, line 2, change "a bracket" to --- and a bracket ---.

On page 2, line 6, change "the line" to --- a line ---.

On page 2, line 7, after "drum" insert --- 11 ---.

On page 7, line 10, after "device" insert --- 15 ---.

On page 2, line 13, change "preventing" to --- prevent ---.

On page 2, line 19, change "Therefor" to --- Therefore ---.

On page 2, line 20, change "of the" to --- of a ---.

On page 2, line 21, after "removing" delete --- the ---.

On page 2, line 23, delete --- summary ---.

On page 2, line 25, delete --- the ---.

On page 2, line 26, before "21" insert --- and ---.

On page 2, line 26, delete --- , while ---.

On page 2, line 27, change "electrifying the" to --- electrifying ---.

On page 2, line 27, before "removing" insert --- while ---.

On page 3, line 1, change "the residual" to --- residual ---.

On page 3, line 6, change "mixing the" to --- mixing ---.

On page 3, line 7, change "Urethane" to --- urethane ---.

On page 3, line 7, after "serving" insert --- as ---.

On page 3, line 9, delete --- the ---.

On page 3, line 10, change "continually" to --- continual ---.

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On page 3, line 11, change "that to be" to --- as to become ---.

On page 3, line 11, change "keeping" to --- keep ---.

On page 3, line 12, change "This" to --- It ---.

On page 4, lines 15, 17, 19 and 21, delete --- summary ---.

On page 4, line 19, change "the other" to --- another ---.

On page 4, line 23, change "expanding" to --- expanded ---.

On page 4, line 25, change :drawing" to --- view ---.

On page 5, line 2, change "drawing" to --- view ---.

On page 5, lines 4 and 14, delete --- summary ---.

On page 5, line 11, change "i.e. image formation" to --- , i.e. image formation, ---.

On page 5, line 16, delete --- the ---.

On page 5, line 17, change "the toner 33, 37" to --- toner 33, and 37 ---.

On page 5, lines 19 and 22, change "a image" to --- an image ---.

On page 5, line 20, delete --- , while ---.

On page 5, line 21, before "uniformly" delete --- the ---.

On page 5, line 21, before "removing" insert --- while ---.

On page 5, line 22, change "the residual" to --- residual ---.

On page 5, line 24, change "a arrow" to --- an arrow ---.

On page 6, line 6, it is unclear what is included in "and other" or what "other" is supposed to be in this instance.

On page 6, line 7, change "as a" to --- as an ---.

On page 6, line 12, after "roller" insert --- 30 ---.

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On page 6, line 12, it is unclear what is included in "and others" or what "others" is supposed to be in this instance.

On page 6, line 12, change "constructed" to --- construct ---.

On page 6, line 13, delete --- , or example, ---.

On page 6, line 13, after "of" insert --- the ---.

On page 6, line 14, change "a" to --- an ---.

On page 6, line 17, change "developing" to --- develop ---.

On page 6, line 25, change "into the" to --- into a ---.

On page 6, line 25, change "of of" to --- of ---.

On page 7, line 2, change "no need to set a electrifying" to --- and no need to set an electrifying ---.

On page 7, line 5, delete --- summary ---.

On page 7, line 6, change "expanding" to --- expanded ---.

On page 7, line 8, change "drawing" to --- view ---.

On page 7, line 12, change "35 is a" to --- and 35 is an ---.

On page 7, line 21, change "46" to --- 45 ---.

On page 7, line 25, after "as" insert --- to ---.

On page 7, line 27, after "using" insert --- a ---.

On page 8, line 2, change "added" to --- given ---.

On page 8, lines 6 and 7, change "curve" to --- curved ---.

On page 8, line 7, change "contacts" to --- contact ---.

On page 8, line 10, change "16" to --- 44 ---.

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On page 8, line 11, before "with" insert --- (Fig. 5) ---.

On page 8, line 11, change "the line" to --- a line ---.

On page 8, line 12, change "drum along the" to --- drum 11 along a ---.

On page 8, line 15, change "cleaning device" to --- electrifying/cleaning device 35

---.

On page 8, line 20, change "blade by a" to --- blade 44 by an ---.

On page 8, line 22, change "particle" to --- particles ---.

On page 8, line 23, delete --- very ---.

On page 8, line 25, change "as a" to --- as an ---.

On page 8, line 25, change "the" to --- a ---.

On page 8, line 26, change "Urethane" to --- urethane ---.

On page 8, line 26, after "tape" insert --- 46 ---.

On page 8, line 27, delete --- 46 ---.

On page 9, lines 5 and 6, change "the phptoconductor" to --- the photoconductor -

--.

On page 9, line 10, after "such" insert --- a ---.

On page 9, line 10, delete --- from ---.

On page 9, line 14, change "electrifying" to --- electrify ---.

On page 9, line 27, "do not occur wrinkle" should be rewritten in a more grammatically correct form.

On page 10, lines 4 and 6, before "Lb" insert --- edge distance ---.

On page 10, line 10, after "distance" insert --- Lb ---.

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On page 10, line 14, change "a" to --- an ---.

On page 10, line 20, before "Lb" insert --- isolation distance ---.

On page 11, line 1, "changes into bigger" should be rewritten in a more grammatically correct form.

On page 11, line 4, delete --- from ---.

On page 11, line 11, change "electrifying" to --- electrify ---.

On page 11, line 14, change "such as carbon black do not be" to --- , such as carbon black are not ---.

On page 11, line 15, change "Urethane" to --- urethane ---.

On page 11, lines 16 and 18, change "22" to --- 44 ---.

On page 11, line 17, change "continually" to --- continual ---.

On page 11, line 18, change "that to be not" to --- as not to be ---.

On page 11, line 18, change "keeping" to --- keep ---.

On page 11, line 26, change "drawing" to --- view ---.

On page 12, line 9, change "wrinkle" to --- wrinkles ---.

On page 12, line 12, after "distances" insert --- Lb ---.

On page 12, line 13, after "blade" insert --- 44 ---.

On page 12, line 13, after "become" insert --- the ---.

On page 12, line 19, delete --- more ---.

On page 12, line 19, after "of" insert --- an ---.

On page 12, line 19, delete --- to explain the ---.

On page 12, line 20, after "3" insert --- is explained ---.



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On page 12, line 21, delete --- summary ---.

On page 13, line 3, delete --- the ---.

On page 13, line 3, after "beyond" insert --- a ---.

On page 13, line 10, change "a image" to --- an image ---.

On page 13, line 21, change "by a" to --- by an ---.

On page 13, line 25, change "continually" to --- continual ---.

On page 13, line 26, change "that to be not" to --- so as to be ---.

On page 16, line 3, change "provided" to --- provides ---.

On page 16, line 5, change "comprises a" to --- includes an ---.

Appropriate correction is required.

### ***Claim Objections***

Claim 1 is objected to because of the following informalities:

Claim 1, line 6, change "member." to --- member, ---.

Appropriate correction is required.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

***Allowable Subject Matter***

Claims 1-5 are allowable over the prior art of record because the prior art of record fails to teach or suggest providing a blade member with a semi-conductive member installed on the blade member and a power unit for adding a voltage to the semi-conductive member, wherein the semi-conductive member is set apart from a contacting portion of the blade member with an image carrier by a predetermined isolation distance Lb.

***Relevant Prior Art***

The following prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Park discloses a cleaning device having a conductive cleaning blade for performing both charging and cleaning operations.

Sbert et al disclose a low friction, conductive spots blade.

Zona discloses a combined charging and cleaning blade.

Sanmonji discloses a cleaning blade that has a conductive film attached to the cleaning blade.

***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William J. Royer whose telephone number is (571) 272-

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2140. The examiner can normally be reached on Monday-Thursday and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Arthur T. Grimley can be reached on (571) 272-2136. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



William J. Royer  
Primary Examiner  
Art Unit 2852

wjr  
November 15, 2004